

PE NUMBER: 0604256F

UNCLASSIFIED

PE TITLE: Threat Simulator Development

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY <b>6 - Management and Support</b>				PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>						
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	52,267	34,086	32,391	36,848	38,260	40,293	43,025	43,914	Continuing	TBD
3321 Electronic Warfare Ground Test Resources	50,796	32,189	28,062	28,724	29,324	31,167	33,656	34,329	Continuing	TBD
2907 Electronic Combat Intel Support	1,471	1,897	1,939	1,985	1,898	1,930	2,053	2,075	Continuing	TBD
7500 Foreign Materiel Acquisition/Exploitation	0	0	2,390	6,139	7,038	7,196	7,316	7,510	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description:** This PE provides funding for the elements necessary to support the AF Electronic Warfare (EW) Test Process. This test process provides a scientific methodology to ensure the effective disciplined and efficient testing of AF EW and avionics systems. Each capability or facility improvement is pursued in concert with the others so as to avoid duplicate capabilities while at the same time producing the proper mix of test resources needed to support the AF EW Test Process. This PE provides funding for the management and technical oversight of implementation activities, the Air Force-led tri-Service effort to establish a common modeling and simulation architecture, development and improvement of digital EW models, measurement facilities operation and improvements, hardware in the loop test facilities operation and improvements, installed system test facility improvements, and development and improvement of open air threat simulators for flight testing. This PE also provides funding for planning, management, budgetary, and technical support to the Air Force for corporate-level implementation of the Electronic Warfare (EW) Test Process and for improvement and modernization (I&M) and application of the test and evaluation (T&E) infrastructure. Support includes requirements definition and analysis, project planning, programming and budgeting, technical oversight, and application of T&E facility I&M. Products include studies, analyses, and related documentation. This PE provides funding to support the acquisition and exploitation efforts of the Foreign Materiel Program, as well as to support EW intelligence efforts, beginning in FY 00. In FY 98, Projects 6510, Flight Test Resources, and 2900, RATSCAT Upgrade, were combined into Project 3321, Electronic Warfare Test Resources, as part of consolidation and simplification efforts in T&E investment accounts. Contracts funded from this program are predominately awarded on the basis of full and open competition. This Program Element is in Budget Activity 6, Management and Support, because it is a Research and Development (R&D) effort for Improvement and Modernization of EW related T&E capabilities at Air Force Test Centers.

(U) **B. Budget Activity Justification:** This Program Element is in Budget Activity 6, Management Support, because it is a Research and Development (R&D) effort for Improvement and Modernization of EW related T&E capabilities at Air Force Test Centers.

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## UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE  
February 1999

## BUDGET ACTIVITY

## 6 - Management and Support

## PE NUMBER AND TITLE

0604256F Threat Simulator Development

(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 1999 PB)	51,501	32,582	37,400	39,561	Continuing
(U) Appropriated Value	54,346	34,582			
(U) Adjustments to Appropriated Value					
a. Cong Adjustments	-3,200	-497			
b. SBIR	0				
c. Omnibus or Other Above Threshold Reprogram	-346				
d. Below Threshold Reprogramming	4,312				
(U) Adjustments to Budget Years Since FY 1999 PB			-5,009	-2,713	
(U) Current Budget Submit/FY 2000 PB	52,267	34,086	32,391	36,848	Continuing

(U) Significant Program Changes: FY 2000 and FY 2001 reductions to fund other Air Force or DoD requirements and realignment of funds from this PE to PE 27601F to support transition of JMASS.

(U) FY99: \$679 has been identified as a source for SBIR.

**UNCLASSIFIED**

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>								DATE <b>February 1999</b>		
<b>BUDGET ACTIVITY</b> <b>6 - Management and Support</b>				<b>PE NUMBER AND TITLE</b> <b>0604256F Threat Simulator Development</b>				<b>PROJECT</b> <b>3321</b>		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
3321 Electronic Warfare Ground Test Resources	50,796	32,189	28,062	28,724	29,324	31,167	33,656	34,329	Continuing	TBD

(U) **A. Mission Description:** The AF requires a comprehensive set of test facilities to implement the Air Force Electronic Warfare (EW) Test Process. In order that program risk can be managed effectively throughout the weapon system acquisition process, and test and evaluation (T&E) be conducted effectively and efficiently, a spectrum of T&E capabilities from modeling and simulation through open-air ranges is required. The EW Test Process Support task provides for investment management, coordinated technical oversight, and application of EW T&E facilities, including studies, analyses, and related documentation. The Joint Modeling and Simulation System (JMASS) is an Air Force-led, tri-service project to establish a common, DoD-wide, digital simulation architecture and set of models in support of T&E. The current JMASS program supports model development to meet the needs of the B-1B Defensive System Upgrade Program (DSUP). The JMASS program currently includes development of a limited set of threat and environment models to support acquisition and test of multiple programs including the B-1B, F-22, and Joint Strike Fighter (JSF). Included in the JMASS program, the EW T&E M&S project develops threat models specifically to support T&E requirements. In FY99 the Joint Program Office will be established for JMASS and in FY00 the funding for the JMASS architecture and software development will transition to PE 27601F and the JMASS compliant, digital EW model development activities required to support T&E customers will remain in this PE. The Radar Target Scatter (RATSCAT) upgrade project provides improvements to the RATSCAT measurement facility at Holloman AFB, NM to support radar cross section (RCS) measurement requirements of DoD customers with either conventional or stealth systems. The Hardware in the Loop (HITL) test facilities evaluate electronic support and countermeasures effectiveness prior to installation on the aircraft. Together, the two AF HITL facilities, the Air Force Electronic Warfare Evaluation Simulator (AFEWES) and the Real Time Electromagnetic Digitally Controlled Analyzer and Processor (REDCAP), provide the ability to realistically evaluate hardware components against manned hardware threat representations early enough to affect final system design. FY98 was the last year of T&E infrastructure funding for operations at the government-owned-contractor-operated REDCAP facility in Buffalo, NY. In subsequent years, REDCAP test functions will transition to the Digital Integrated Air Defense System (DIADS) HITL at Edwards AFB, CA. The Electronic Combat Integrated Test (ECIT) project upgrades the AF Installed System Test Facility (ISTF) at Edwards AFB, CA. This ISTF consists of a large, instrumented, anechoic chamber which provides for evaluation of an EW system when installed on its host aircraft, both prior to and throughout the flight test program. The goal of the ECIT upgrade is to integrate coherent EW threat stimulators into the ISTF. The Advanced Airborne Interceptor Simulator (AAIS), a project to develop an advanced signal system to represent airborne threats for EW open-air testing, was terminated in FY98 because of the availability of Foreign Material Acquisition assets capable of meeting primary customer requirements. Also in FY 98, Projects 6510, Flight Test Resources, and 2900, RATSCAT Upgrade, were combined into Project 3321, Electronic Warfare Test Resources.

Project 3321
Page 3 of 12 Pages
Exhibit R-2A (PE 0604256F)

## UNCLASSIFIED

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 1999</b>
BUDGET ACTIVITY <b>6 - Management and Support</b>	PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>	PROJECT <b>3321</b>

(U) FY 1998 (\$ in Thousands):

- (U) \$1,825 EW Test Process Support. Conducted requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Provided systems engineering/technical assistance (SETA) support for Air Force implementation of the EW Test Process, including improvement and modernization (I&M) of the EW test infrastructure.
- (U) \$12,489 JMASS. Prepared to initiate development of a joint version of the JMASS software. Adapted JMASS to a wider variety of computer platforms, including personal computers (PC). Increased JMASS efficiency by optimizing the architecture. Adapted commercial off-the-shelf (COTS) tools for front-end model development and post-processing viewing and analysis. Operated and maintained EW model library. Began development and implementation of JMASS compliant models of surface-to-air missiles (SAMs), Air-to-Air Missiles (AAMs) and Airborne Interceptors (AIs) to support acquisition and test of multiple programs, including the B-1, F-22, and Joint Strike Fighter (JSF). The EW Test and Evaluation Modeling and Simulation (EW T&E M&S) continued developing threat models required by DoD customers to support the EW Test Process.
- (U) \$1,973 RATSCAT Upgrades. Integrated mobile Bistatic Coherent Measurement System (BICOMS) radar with BICOMS control and instrumentation infrastructure. Procured and began integration of RATSCAT Advanced Measurement System (RAMS) radar replacement hardware.
- (U) \$3,525 AFEWES Operation and Upgrade. Continued AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers. Continued Advanced RF (SAM-E) and IR/UV HITL simulator modifications. Upgraded the RF clutter environment to better simulate the open air range and integrate a semi-active SAM simulation (SAM-C1) in AFEWES.
- (U) \$4,912 REDCAP/DIADS. Transitioned Integrated Air Defense System (IADS) HITL capability from REDCAP, Buffalo, NY, to the Air Force Flight Test Center (AFFTC) and established Digital IADS (DIADS) HITL capability for support of Air Force, Army, Navy and non-DoD test customers. Completed development of Airborne Warning Model and Advanced C<sup>3</sup> Upgrade, and began development of additional IADS configurations. Began integration with ECIT.
- (U) \$22,144 ECIT. Continued development of infrastructure and generic test capabilities (I&GTC) for EW and avionics installed system testing. Conducted Critical Design Review (CDR) of major I&GTC subsystems including Network and Controls, Simulation, Radio Frequency (RF) Generation and Injection, RF Free Space Excitation, and Instrumentation.
- (U) \$3,928 AAIS. Paid termination costs of canceled program.
- (U) \$50,796 Total

Project 3321

Page 4 of 12 Pages

Exhibit R-2A (PE 0604256F)

**UNCLASSIFIED**

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE
BUDGET ACTIVITY <b>6 - Management and Support</b>		<b>0604256F Threat Simulator Development 3321</b>
<p><u>FY 1999 (\$ in Thousands):</u></p> <p>EW Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure.</p> <p>- (U) \$8,149</p> <p>software, which affords compatibility with the DoD High-Level Architecture (HLA). Complete transition of JMASS to PCs and other computer compliant SAM, AAM, and AI models to support the needs of a single customer. The EW Test and Evaluation Modeling and Simulation (EW Specifically EW T&amp;E M&amp;S will complete development of the JMASS RF environment model, complete development of the SADS 2b/f, begin</p> <p>- (U) \$1,863</p> <p>upgrade range characterization and mainsite UHF/VHF upgrade.</p> <p>AFEWES Operation. Continue AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers. Continue development</p> <p>- (U) \$6,191</p> <p>required to achieve IOC of DIADS baseline. Begin development of external linking and BLUE IADS capabilities.</p> <p>ECIT. Complete the infrastructure and generic test capabilities (I&amp;GTC), which provides RF generation capability in support of F-22 and the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Simulator (IRSS), and Communications-Navigation-</p> <p>- (U) \$ 641</p> <p>-(U)\$32,189</p>		
<i>Page 5 of 12 Pages</i>		

**UNCLASSIFIED**

**UNCLASSIFIED**

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>		DATE <b>February 1999</b>
BUDGET ACTIVITY <b>6 - Management and Support</b>	PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>	PROJECT <b>3321</b>
<p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 884 EC Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Provide systems engineering/technical assistance (SETA) support for Air Force implementation of the EW Test Process, including improvement and modernization (I&amp;M) of the EW test infrastructure.</li> <li>- (U) \$4,037 EW Test and Evaluation Modeling and Simulation (EW T&amp;E M&amp;S). Develop JMASS compliant, digital threat models required by DoD customers to support the EW Test Process. Continue development of SADS-10B digital model. Complete development of SADS-3 model.</li> <li>- (U) \$2,003 RATSCAT Upgrades. Achieve FOC for RAMS Pylon. Complete industry partnership efforts with first major EW supplier. Continue range characterization and mainsite UHF/VHF upgrade.</li> <li>- (U) \$5,908 AFEWES. Continue AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers. Complete development of Advance Simulator Modifications (SAM-C2), and begin development of advanced RF semi-active SAM simulations (SAM-D).</li> <li>- (U) \$2,835 DIADS. Continue support to Air Force, Army, Navy, and non-DoD test customers. Continue development of external linking via HLA and BLUE IADS capabilities. Begin support of major OT customers with RED IADS scenario generation and execution.</li> <li>- (U) \$12,395 ECIT. Complete Test Control and Integration (TC&amp;I) sub-system to be integrated into the Integration Facility for Avionics Systems Test (IFAST). This effort includes integration of the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Stimulator (IRSS), and Communications-Navigation-Identification (CNI) simulator into IFAST to support F-22 requirements.</li> <li>-(U) \$28,062 Total</li> </ul> <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 903 EC Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Provide systems engineering/technical assistance (SETA) support for Air Force implementation of the EW Test Process, including improvement and modernization (I&amp;M) of the EW test infrastructure.</li> <li>- (U) \$3,989 EW Test and Evaluation Modeling and Simulation (EW T&amp;E MS). Develop JMASS compliant, digital threat models required by DoD customers to support the EW Test Process. Complete development of SADS-10B digital model.</li> <li>- (U) \$1,705 RATSCAT Upgrades. Enhance efficiency of operations and accuracy of measurements. Expand partnerships with major industry EW suppliers. Complete updated range characterization effort. Continue mainsite UHF/VHF upgrade.</li> <li>- (U) \$7,940 AFEWES. Continue AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers. Complete development of advanced simulator modifications (SAM-C2). Continue development of advanced RF semi-active SAM simulations (SAM-D), and begin development of a second advanced RF semi-active SAM simulation (SAM-F). Begin development of advanced IR SAM.</li> <li>- (U) \$3,478 DIADS. Continue support to Air Force, Army, Navy, and non-DoD test customers. Continue development of external linking via HLA and BLUE IADS capabilities. Continue support of major OT customers with RED IADS scenario generation and execution. Begin integration with M&amp;S air warfare mission simulations.</li> <li>- (U) \$10,709 ECIT. Integrate the Test Control and Integration (TC&amp;I) sub-system with the Benefield Anechoic Facility (BAF) Installed System Test Facility (ISTF). This effort includes integration of the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Stimulator (IRSS), and Communications-Navigation-Identification (CNI) simulator into the BAF to support F-22 requirements.</li> </ul>		
Project 3321	Page 6 of 12 Pages	Exhibit R-2A (PE 0604256F)

		DATE	February 1999
BUDGET ACTIVITY		PE NUMBER AND TITLE	
6 - Management and Support		0604256F Threat Simulator Development	
<div>-(U) \$28,724      Total</div>			

## UNCLASSIFIED

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>					DATE <b>February 1999</b>						
<b>BUDGET ACTIVITY</b> <b>6 - Management and Support</b>				<b>PE NUMBER AND TITLE</b> <b>0604256F Threat Simulator Development 3321</b>							
<p><b>B.</b> _____</p> <p>(U) Significant Program Changes: FY 2000 and FY 2001 reductions to fund other Air Force or DoD requirements.</p> <p>(U) <b>C.</b> _____</p>											
		<u>FY 1998</u>	_____	<u>FY 2000</u>	_____	<u>FY 2002</u>	_____	<u>FY 2004</u>	_____	To	Total
Appropriation: RDT&E											
Program Title: Central Test and Evaluation		39,643								N/A	
Related RDT&E: (U) PE 0604735F, Combat Training Ranges  (U) <u>Acquisition Strategy</u> (U)											



## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)													DATE February 1999			
BUDGET ACTIVITY <b>6 - Management and Support</b>					PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>								PROJECT <b>3321</b>			
<b>(U) E. <u>Schedule Profile</u></b>																
		<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) JMASS 3.2 Release	*															
(U) Establish JMASS JPO					X											
(U) ECIT Infrastructure and Generic Test Capability (I&GTC) IOC							X									
(U) ECIT SIL Integration									X							
(U) ECIT BAF Integration															X	
(U) Digital Integrated Air Defense System Baseline IOC							X									
(U) AAIS Program Terminated	*															
(U) AFEWES SAM-C Upgrade										X						
(U) AFEWES SAM-E Dev Complete												X				
(U) AFEWES SAM-F Dev Complete																X
(U) EW T&E M&S Threat Models Complete		*	*	X		X			X			X				X
(U) BICOMS Mobile Radar IOC				X												
(U) RAMS Replacement Radar IOC					X											
(U) RAMS Pylon Full Operational Capability (FOC)									X							
(U) RATSCAT - Upgrade Range Characterization							X							X		
(U) RATSCAT Mainsite UHF/VHF Upgrade								X								+

Project 3321

Page 8 of 12 Pages

Exhibit R-2A (PE 0604256F)

## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE <b>February 1999</b>		
BUDGET ACTIVITY <b>6 - Management and Support</b>				PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>				PROJECT <b>2907</b>		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2907 Electronic Combat Intel Support	1,471	1,897	1,939	1,985	1,898	1,930	2,053	2,075	Continuing	TBD

(U) **A. Mission Description** This project provides funding to support Foreign Materiel Operational Test and Evaluation (FMOT&E), which ensures the ability of operational commands to test and develop effective Electronic Attack/Electronic Protection (EA/EP) and tactics. Funds are required for: deployment of blue systems to test facilities, travel for personnel to the test sites to evaluate and validate test results real-time, reimbursement for range and laboratory costs; costs for instrumentation of blue systems; contracted engineering support for the conduct of tests and subsequent reporting. Funding for this program is required to prevent future aircraft losses due to improper and ineffective aircrew tactics (e.g., lack of evasive action or proper tactics training to avoid missile attack).

(U) FY 1998 (\$ in Thousands):

- (U) \$1,180      Funded fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reporting was accomplished.
- (U) \$ 250      Funded transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting was accomplished.
- (U) \$ 41        Funded classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting was accomplished.
- (U) \$1,471      Total

(U) FY 1999 (\$ in Thousands):

- (U) \$1,508      Funds fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$ 290      Funds transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$ 61        Funds classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$ 38        Identified as source for SBIR
- (U) \$1,897      Total

(U) FY 2000 (\$ in Thousands):

- (U) \$1,557      Funds fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$ 319      Funds transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$ 63        Funds classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.
- (U) \$1,939      Total

Project 2907

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY <b>6 - Management and Support</b>		<b>2907</b>
<p><u>FY 2001 (\$ in Thousands):</u></p> <p>- (U) \$1,570</p> <p>- (U) \$ 344      Funds transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>- (U) \$1,985      Funds classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) B. _____:</p> <p>Significant Program Changes:</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> None.</p> <p>(U) <u>Acquisition Strategy:</u></p> <p>(U) E. <u>Schedule Profile</u> Not applicable.</p>		
Project 2907		Exhibit R-2A (PE 0604256F)

**UNCLASSIFIED**

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)</b>									DATE <b>February 1999</b>	
BUDGET ACTIVITY <b>6 - Management and Support</b>				PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>					PROJECT <b>7500</b>	
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
7500 Foreign Materiel Acquisition/Exploitation	0	0	2,390	6,139	7,038	7,196	7,316	7,510	Continuing	TBD

(U) **A. Mission Description:** This project is established for the specific purpose of supporting the USAF Foreign Materiel Program in the acquisition and exploitation of foreign materiel. Items considered for these Foreign Materiel Acquisition and Exploitation (FMA&E) funds are included in the prioritized Air Force Foreign Materiel Acquisition (FMA) list established each year. The USAF FMA list is established annually by Major Command representatives using specific criteria and a well-established process. The draft list is then approved by each Major Command, and final approval comes from the Air Force Vice Chief of Staff. Exploitations are based on and driven by acquisitions.

(U) FY 1998 (\$ in Thousands): Not applicable.

(U) FY 1999 (\$ in Thousands): Not applicable.

(U) FY 2000 (\$ in Thousands):

- (U) \$ 1,792 Funds the acquisition of Foreign Materials IAW the prioritized Air Force Foreign Material Acquisition list; subject to assets availability.
- (U) \$ 359 Funds the exploitation of acquired Foreign Materials IAW prioritized lists and specific exploitation plans.
- (U) \$ 239 Funds the operations and maintenance of the specialized Foreign Material assets.
- (U) \$2,390 Total

(U) FY 2001 (\$ in Thousands):

- (U) \$4,604 Funds the acquisition of Foreign Materials IAW the prioritized Air Force Foreign Material Acquisition list; subject to assets availability.
- (U) \$ 957 Funds the exploitation of acquired Foreign Materials IAW prioritized lists and specific exploitation plans.
- (U) \$ 578 Funds the operations and maintenance of the specialized Foreign Material assets.
- (U) \$6,139 Total

Project 7500
Page 11 of 12 Pages
Exhibit R-2A (PE 0604256F)

## UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY <b>6 - Management and Support</b>	PE NUMBER AND TITLE <b>0604256F Threat Simulator Development</b>	PROJECT <b>7500</b>
<p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u></p> <p>(U) Significant Program Changes: FY 2000 reductions to fund other Air Force requirements.</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> None.</p> <p>(U) D. <u>Acquisition Strategy:</u> Not applicable</p> <p>(U) E. <u>Schedule Profile:</u> Not applicable.</p>		
Project 7500	Page 12 of 12 Pages	Exhibit R-2A (PE 0604256F)